

# Neurological insight of behavioral control by parasites or symbiosis

Design by taeko\*\*

**2014**  
**27th July**  
**13:00-18:00**

**Venue** : Room 205,  
Building #5,  
Faculty of Science,  
Sapporo campus,  
Hokkaido University



**Organized by**  
**\*Takuya Sato**  
(Kobe Univ, Japan)  
**Mamiko Ozaki**  
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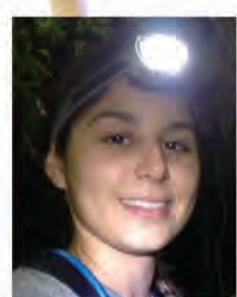
**Mamiko Ozaki**  
(Kobe Univ, Japan)

**Opening remark**



**Frederic Libersat**  
(Ben Gurion Univ, Israel)

**Neuroethology of cockroach host  
zombification by a parasitoid wasp**



**Raquel Loreto**  
(Pennsylvania State Univ, USA)

**Zombie ants across scales:  
from continents to brains**



**Shuji Shigenobu**  
(NIBB, Japan)

**Genomic revelations of a mutualism:  
the pea aphid and its obligate bacterial  
symbiont**



**Masaru K Hojo**  
(Kobe Univ, Japan)

**The origins of behavioral control?  
Nectar rewards from a mutualistic  
butterfly modify cooperative behavior  
of the partner ants**



**Takuya Sato**  
(Kobe Univ, Japan)

**Ecosystem consequences of the  
extended phenotype mediated  
by nematomorphs**



**HOKKAIDO NEUROETHOLOGY WORKSHOPS**